

**Table CT6. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2016, Pennsylvania**

Year	Coal	Natural Gas <sup>a</sup>	Petroleum						Hydro-electric Power <sup>e,f</sup>	Biomass		Geo-thermal <sup>f</sup>	Solar <sup>f,i</sup>	Retail Electricity Sales	Net Energy <sup>f,j</sup>	Electrical System Energy Losses <sup>k</sup>	Total <sup>f,j</sup>
			Distillate Fuel Oil	HGL <sup>b</sup>	Motor Gasoline <sup>c</sup>	Residual Fuel Oil	Other <sup>d</sup>	Total		Wood and Waste <sup>f,g</sup>	Losses and Co-products <sup>h</sup>						
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels						Million kWh	Million kWh							
1960	33,140	213	8,645	992	1,456	29,692	17,976	58,762	16	--	--	--	NA	20,693	--	--	--
1965	40,010	285	11,641	1,383	1,480	29,434	23,354	67,291	15	--	--	--	NA	29,075	--	--	--
1970	35,753	340	10,196	2,396	1,181	27,132	23,465	64,370	12	--	--	--	NA	38,993	--	--	--
1975	28,510	263	11,033	3,439	1,098	21,941	24,391	61,902	1	--	--	--	NA	41,256	--	--	--
1980	21,877	337	11,128	5,238	586	11,555	22,987	51,494	1	--	--	--	NA	46,045	--	--	--
1985	13,716	231	6,434	4,624	1,276	2,624	19,794	34,753	1	--	--	--	NA	42,520	--	--	--
1990	14,546	241	7,489	3,177	1,180	5,734	27,019	44,600	0	--	--	--	(s)	45,992	--	--	--
1995	14,885	252	4,392	1,687	934	2,888	26,762	36,663	0	--	--	--	(s)	47,528	--	--	--
1996	15,155	246	4,462	1,977	855	3,292	24,162	34,748	0	--	--	--	(s)	47,208	--	--	--
1997	14,825	240	4,179	1,272	887	2,227	26,899	35,464	0	--	--	--	(s)	48,063	--	--	--
1998	10,691	232	4,066	1,224	872	2,219	27,259	35,640	0	--	--	--	(s)	48,815	--	--	--
1999	10,160	236	5,034	1,188	741	1,903	25,131	33,997	0	--	--	--	(s)	46,059	--	--	--
2000	10,508	235	5,576	1,766	703	1,994	25,625	35,664	0	--	--	--	(s)	45,449	--	--	--
2001	10,079	203	5,997	2,391	1,363	1,600	29,540	40,892	0	--	--	--	(s)	47,383	--	--	--
2002	10,137	212	5,254	2,153	1,432	1,316	26,927	37,082	0	--	--	--	(s)	47,090	--	--	--
2003	10,366	200	4,883	5,164	1,510	2,111	28,739	42,406	0	--	--	--	(s)	46,773	--	--	--
2004	10,418	200	5,446	5,010	1,823	1,918	29,439	43,635	0	--	--	--	(s)	47,659	--	--	--
2005	9,957	190	5,681	6,649	1,841	1,915	30,674	46,760	0	--	--	--	(s)	47,950	--	--	--
2006	9,595	195	7,293	7,372	2,112	1,709	30,102	48,588	0	--	--	--	(s)	47,920	--	--	--
2007	9,264	196	7,847	6,933	1,542	1,300	29,370	46,991	0	--	--	--	(s)	48,579	--	--	--
2008	9,135	198	8,775	8,517	837	1,045	27,039	46,212	0	--	--	--	(s)	48,131	--	--	--
2009	6,017	186	5,495	7,851	840	750	26,299	41,236	0	--	--	--	1	43,552	--	--	--
2010	7,498	221	5,903	7,697	2,048	679	R 24,551	R 40,877	0	--	--	--	10	45,458	--	--	--
2011	7,217	247	7,049	8,036	1,241	696	R 22,352	R 39,373	0	--	--	--	36	49,585	--	--	--
2012	6,872	282	7,877	5,644	2,073	205	R 18,468	R 34,267	0	--	--	--	R 51	48,039	--	--	--
2013	7,908	340	8,707	5,461	2,133	139	R 20,525	R 36,965	0	--	--	--	57	48,043	--	--	--
2014	8,056	399	9,924	5,587	1,716	78	R 21,375	R 38,681	0	--	--	--	63	48,318	--	--	--
2015	7,567	R 386	8,869	5,389	R 1,494	90	R 22,327	R 38,168	0	--	--	--	68	47,404	--	--	--
2016	5,818	405	6,389	5,511	1,485	123	21,779	35,286	0	--	--	--	68	47,128	--	--	--
Trillion Btu																	
1960	873.1	220.0	50.4	4.1	7.6	186.7	110.7	359.5	0.2	19.8	NA	NA	NA	70.6	1,543.2	174.6	1,717.8
1965	1,053.3	296.1	67.8	5.7	7.8	185.0	142.3	408.7	0.2	25.8	NA	NA	NA	99.2	1,883.2	236.8	2,120.1
1970	932.1	351.2	59.4	9.0	6.2	170.6	143.5	388.6	0.1	32.3	NA	NA	NA	133.0	1,837.5	321.9	2,159.3
1975	743.1	269.8	64.3	12.5	5.8	137.9	148.1	368.7	(s)	36.3	NA	NA	NA	140.8	1,558.7	337.7	1,896.3
1980	573.1	344.0	64.8	19.0	3.1	72.6	139.5	299.1	(s)	74.6	NA	NA	NA	157.1	1,446.4	377.4	1,823.8
1985	359.2	238.7	37.5	16.4	6.7	16.5	122.7	199.8	(s)	87.4	0.0	NA	NA	145.1	1,030.0	332.3	1,362.3
1990	382.1	250.9	43.6	11.3	6.2	36.0	166.3	263.5	0.0	23.7	0.0	0.0	(s)	156.9	1,077.1	344.2	1,421.3
1995	392.2	261.4	25.6	6.0	4.9	18.2	165.3	220.0	0.0	33.2	0.0	0.0	(s)	162.2	1,068.9	365.3	1,434.2
1996	398.4	254.6	26.0	7.0	4.5	20.7	149.2	207.3	0.0	38.4	0.0	0.0	(s)	161.1	1,059.7	364.0	1,423.7
1997	390.0	248.3	24.3	4.5	4.6	14.0	165.3	212.8	0.0	41.8	0.0	0.0	(s)	164.0	1,056.9	362.1	1,418.9
1998	284.2	240.5	23.7	4.4	4.5	14.0	168.2	214.7	0.0	36.3	0.0	0.0	(s)	166.6	942.2	366.4	1,308.5
1999	269.6	244.2	29.3	4.2	3.9	12.0	153.2	202.6	0.0	38.5	0.0	0.0	(s)	157.2	912.1	350.9	1,262.9
2000	277.9	243.6	32.4	6.3	3.7	12.5	158.3	213.2	0.0	38.0	0.0	0.0	(s)	155.1	927.6	354.4	1,282.0
2001	266.0	214.6	34.9	8.5	7.1	10.1	182.2	242.8	0.0	35.6	0.0	0.0	(s)	161.7	920.5	348.0	1,268.5
2002	267.7	220.5	30.6	7.6	7.5	8.3	165.3	219.3	0.0	30.2	0.0	0.0	(s)	160.7	898.3	358.3	1,256.6
2003	274.0	208.2	28.4	18.4	7.9	13.3	176.9	244.8	0.0	31.1	0.0	0.0	(s)	159.6	917.7	349.7	1,267.4
2004	273.4	207.9	31.7	17.8	9.5	12.1	183.2	254.2	0.0	32.3	0.0	0.0	(s)	162.6	930.3	357.7	1,288.0
2005	250.3	197.5	33.1	23.6	9.6	12.0	190.6	268.9	0.0	32.6	0.0	0.0	(s)	163.6	912.8	356.5	1,269.3
2006	240.5	202.5	42.3	26.1	11.0	10.7	186.6	276.7	0.0	30.3	0.0	0.0	(s)	163.5	913.5	350.4	1,263.9
2007	232.3	203.7	45.4	24.4	7.9	8.2	181.7	267.6	0.0	30.5	0.0	0.0	(s)	165.8	899.9	354.7	1,254.5
2008	227.3	205.2	50.7	29.9	4.3	6.6	167.4	258.8	0.0	30.3	0.0	0.0	(s)	164.2	885.9	354.5	1,240.3
2009	147.9	193.1	31.8	27.2	4.3	4.7	163.2	231.2	0.0	28.9	0.0	0.0	(s)	148.6	749.6	309.6	1,059.3
2010	186.2	228.8	34.1	29.5	10.4	4.3	R 152.6	R 230.9	0.0	R 38.1	5.8	0.0	0.1	155.1	R 845.0	319.6	R 1,164.6
2011	180.3	257.1	40.7	30.8	6.3	4.4	R 138.5	R 220.6	0.0	R 52.2	6.1	0.0	0.4	169.2	R 885.9	344.5	R 1,230.4
2012	185.6	294.9	45.5	21.6	10.5	1.3	R 115.0	R 193.9	0.0	R 52.2	5.7	0.0	0.5	163.9	R 896.8	332.2	R 1,229.0
2013	217.2	357.3	50.2	20.9	10.8	0.9	R 126.2	R 209.0	0.0	R 59.8	6.0	0.0	0.5	163.9	R 1,013.8	332.0	R 1,345.7
2014	221.8	419.6	57.2	21.4	8.7	0.5	R 132.1	R 219.9	0.0	R 54.9	6.1	0.0	0.6	164.9	R 1,087.8	333.5	R 1,421.3
2015	207.6	R 405.0	51.2	20.7	7.6	0.6	R 138.3	R 218.2	0.0	R 53.1	5.9	0.0	0.6	161.7	R 1,052.2	323.2	R 1,375.4
2016	159.7	422.0	36.8	21.1	7.5	0.8	135.0	201.3	0.0	54.7	5.8	0.0	0.6	160.8	1,004.9	319.2	1,324.1

<sup>a</sup> Natural gas as it is consumed; includes supplemental gaseous fuels that are commingled with natural gas.

<sup>b</sup> Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

<sup>c</sup> Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.

<sup>d</sup> Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

<sup>f</sup> There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

<sup>g</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

<sup>h</sup> Losses and co-products from the production of fuel ethanol.

<sup>i</sup> Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the residential sector.

<sup>j</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

column. Beginning in 2009, includes a small amount of wind energy consumed by industrial utility-scale facilities. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

<sup>k</sup> Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

kWh = Kilowatthours. -- = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at <https://www.eia.gov/state/seds/seds-data-complete.php>.

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.